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Patent Abstracts of Japan

PUBLICATION NUMBER

58134512

PUBLICATION DATE

10-08-83

APPLICATION DATE

04-02-82

APPLICATION NUMBER

57016624

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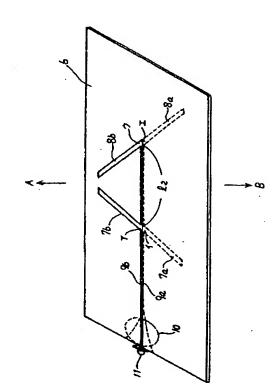
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INT.CL.

H01Q 21/24 H01Q 1/38

TITLE

DIE POLE ARRAY ANTENNA



ABSTRACT :

PURPOSE: To obtain a die pole array antenna which is easily manufactured and has high precision by printing two die poles on one dielectric substrate at a 90° relative angle.

CONSTITUTION: The die poles 7a and 7b, and 8a and 8b, parallel two-wire lines 9a and 9b, and a tapered balun 10 are printed on the top and reverse surfaces of the dielectric substrate 6 to constitute the united die pole array antenna. A current fed to a coaxial plug 11 is passed through the tapered balun 10 and converted from an unbalanced mode to a balanced mode to be fed to the die poles from feeding points (a)–(d) through the parallel two-wire lines 9a and 9b. The die poles 7a and 7b, and 8a and 8b are printed at a 90° relative angle mutually and their fed currents have a 90° phase difference because of line length l_2 , so the die pole array antenna in a figure radiate a circular polarized wave having a small axis ratio between directions A and B.

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